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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-325-13 Relating to Certification of New Motor Vehicles

GFI CONTROL SYSTEMS, INC.

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That GFI Control Systems, Inc. 1999 model-year exhaust emission control systems are certified as described below for passenger cars:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Dual-Fuel Compressed Natural Gas (CNG) or Gasoline (Indolene)

Engine Family: XG9XV02.0V0C Displacement: 2.0 Liters (121 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Three Way Catalytic Converter Heated Oxygen Sensors (two) Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

The certification exhaust emission standards for this engine family in grams per mile are: (The standards in parentheses are for gasoline.)

Miles	Non-Methane Carbon Organic Gases Monoxide		Nitrogen Oxides	Formal dehyde		Carbon Monoxide (20°F)	
50,000	0.125 (0.25)	3.4 (3.4)	0.4 (0.4)		(0.015)	n/a (10.0)	
100,000	0.156 (0.31)	4.2 (4.2)	0.6 (0.6)		(0.018)	n/a	

The CNG certification exhaust emission values set forth for non-methane organic gases (NMOG) reflect application of a reactivity adjustment factor (RAF) for CNG-fueled passenger car TLEVs, and the addition of the product of the methane exhaust emission value and a RAF for methane emission of CNG-fueled passenger car TLEVs.

Reactivity Adjustment Factor for NMOG Mass Emission: 1.00

Reactivity Adjustment Factor for Methane Mass Emission: 0.0043

The certification exhaust emission values for this engine family in grams per mile are: (The values in parentheses are for gasoline.)

Miles	Non-Methane Organic Gases	Carbon <u>Monoxide</u>	Nitrogen Oxides	<u>Formaldehyde</u>	Carbon Monoxide (20°F)	
50,000	0.040 (0.07)		0.2 (0.2)	0.0004 (0.0002)	n/a (4.9)	
100,000	0.048 (0.08)		0.2 (0.2)	0.0005 (0.0002)	n/a	

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles," and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this ______ day of November 1998.

R. B. Summerfield, Chief

Mobile Source Operations Division

Air Resources Board Supplemental Data Sheet Passenger Cars, Light Duty Trucks and Medium Duty Vehicles Eo# A - 325-13 Model Year 1999

Manufacturer. G	FI CONTROL SY	STEMS IN	IC Exh Eng	Fam:XG	9X 0 02.0VOC	vapFam:XFM	XRO115BBE
All Engine Codes	in Engine Family:	CA X	49s50s_	AB965	<u> </u>	ORVR: Yes	No_X
Exh Std: CA Tier-1 TLEV X LEV ULEV SULEV US EPA Tier-1							
Veh Class(es):	PCX LDTI_	_ LDT2	MDV1_	MDV	2MDV3	_MDV41	MDV5
Single Cert Standard for Multi-Class Eng Family: N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)							
Fuel Type(s): Dedicated Flex Fuel Dual Fuel X Bi-Fuel Gasoline X Diesel							
CNG_X LNG_LPGM85Other (specify)							
Exh Emiss Test Fuel(s): Indo X CBG CNG X LPG M85 Other (specify)							
Diesel: 13 CCR 2282 40 CFR 86.113-90 40 CFR 86.113-90							
Evaporative Emis	ssions Test Procedu	re: Califo	rnia <u>X</u>	Fed	leral	CNG: Assign	ed ds
Service Accum;	Std AMA N	Nod AMA_	Mſr A	DP	Other (specify)_	Gas: Clo fro	m Find
	edure: N/A						
	tion: IN LINE						
	der. <u>4</u>						
	X_Mid						D-PT
Exhaust ECS (e.g	, MFI, EGR, TC, C	CAC):	TWC	. HORSC	²⁾ SFI		
			(use al	obreviation	ns per SAE J193	0 Jun93)	
Engine Code (also list	Vehicle Models	Trans.	ETW	DPA	Ignition	EGR	Catalytic
CA/49st/50st)	(if coded see attachment)	(M5, A4 etc.)	or Test Wt.	or RLHP	(ECM/PCM) Part No.	System Part No.	Converter Part No.
KJad0/804gd001. mcs/gfi25h74/sel0 2404h74	Contour	I.4	3500 lbm	5.4 hp	See attached Parce List	See attached Parts List	See Mached Parts List
					9788-5E211	N/A	97BB-5E211
					- 8J		-BE